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NEWS 20 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation  
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=> s edible and (mucoadhes? or bucal? or bioadhes?)  
L1 235 EDIBLE AND (MUCOADHES? OR BUCAL? OR BIOADHES?)

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=> s 11 and (film form?)  
3 FILES SEARCHED...
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22 OF 22 PAGES (FIFTH FORM).

### T.3 12 T.2 AND MA

**20**      **12 12 FIND**

$\Rightarrow$  s. 13 and filler or ((microcryst.

carbonate) or calcium carbonate) or limestone or (magnesium carbonate) or (aluminum silicate) or clay or talc or (titanium dioxide) or (monocalcium phosphate) or (dicalcium phosphate) or (tricalcium phosphate))  
UNMATCHED RIGHT PARENTHESIS 'PHOSPHATE))'

The number of right parentheses in a query must be equal to the number of left parentheses.

=> s 13 and filler or ((microcrystalline cellulose) or wood or (magnesium carbonate) or (calcium carbonate) or limestone or (magnesium carbonate) or (aluminum silicate) or clay or talc or (titanium dioxide) or (monocalcium phosphate) or (dicalcium phosphate) or (tricalcium phosphate))

L4 986633 L3 AND FILLER OR ((MICROCRYSTALLINE CELLULOSE) OR WOOD OR (MAGNESIUM CARBONATE) OR (CALCIUM CARBONATE) OR LIMESTONE OR (MAGNESIUM CARBONATE) OR (ALUMINUM SILICATE) OR CLAY OR TALC OR (TITANIUM DIOXIDE) OR (MONOCALCIUM PHOSPHATE) OR (DICALCIUM PHOSPHATE) OR (TRICALCIUM PHOSPHATE))

=> s 13 and (filler or (microcrystalline cellulose) or wood or (magnesium carbonate) or (calcium carbonate) or limestone or (magnesium carbonate) or (aluminum silicate) or clay or talc or (titanium dioxide) or (monocalcium phosphate) or (dicalcium phosphate) or (tricalcium phosphate))

4 FILES SEARCHED...

L5 11 L3 AND (FILLER OR (MICROCRYSTALLINE CELLULOSE) OR WOOD OR (MAGNESIUM CARBONATE) OR (CALCIUM CARBONATE) OR LIMESTONE OR (MAGNESIUM CARBONATE) OR (ALUMINUM SILICATE) OR CLAY OR TALC OR (TITANIUM DIOXIDE) OR (MONOCALCIUM PHOSPHATE) OR (DICALCIUM PHOSPHATE) OR (TRICALCIUM PHOSPHATE))

=> s 15 and (hydrocolloid or (seaweed# or gum# or (plant exudate#) or (fiber extract#) or gelatin# or starch or cellulosic# or alginate# or (sodium alginate) or (calcium alginate) or carrageenan or guar or locust or tara or arabic or ghatti or agar or xnathan or pectin)

UNMATCHED LEFT PARENTHESIS 'AND (HYDROCOLLOID'

The number of right parentheses in a query must be equal to the number of left parentheses.

=> s 15 and (hydrocolloid or (seaweed# or gum# or (plant exudate#) or (fiber extract#) or gelatin# or starch or cellulosic# or alginate# or (sodium alginate) or (calcium alginate) or carrageenan or guar or locust or tara or arabic or ghatti or agar or xnathan or pectin))

4 FILES SEARCHED...

L6 11 L5 AND (HYDROCOLLOID OR (SEAWEED# OR GUM# OR (PLANT EXUDATE#) OR (FIBER EXTRACT#) OR GELATIN# OR STARCH OR CELLULOSIC# OR ALGINATE# OR (SODIUM ALGINATE) OR (CALCIUM ALGINATE) OR CARRAGEENAN OR GUAR OR LOCUST OR TARA OR ARABIC OR GHATTI OR AGAR OR XNATHAN OR PECTIN))

=>

=> d 16 1-11 ibib ab

L6 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:222155 CAPLUS

DOCUMENT NUMBER: 138:242911

TITLE: **Edible film formulations containing maltodextrin**

INVENTOR(S): Zyck, Daniel J.; Dzija, Michael R.; Chapdelaine, Albert H.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 7 pp., Cont.-in-part of U.S. Ser. No. 682,164.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003054039	A1	20030320	US 2002-44105	20020109
US 2003035841	A1	20030220	US 2001-682164	20010730
WO 2003011259	A1	20030213	WO 2002-US21591	20020709
WO 2003011259	C1	20030320		
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,			

PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  
NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-682164 A2 20010730  
US 2002-44105 A 20020109

AB Improved **edible** films for **mucoadhesion** are provided. The films include at least three types **film forming** agents other than pullulan, such as maltodextrins, hydrocolloids and fillers. Preferably, the **maltodextrin** has a dextrose equiv. of less than 20. Medicaments and other additive agents can also be incorporated into the **edible** films. In this regard, the **edible** films can be utilized to deliver or release the medicaments into an oral cavity, such as a pH control agent, an oral care agent, a breath freshening agent, a pharmaceutical agent, a nutraceutical, a salivary stimulant, a vitamin, a mineral, an antimicrobial agent, an anti-plaque agent, an anti-gingivitis agent, and a tartar or caries control agent, thereby providing effective oral treatment with respect to, for example, oral cleansing and breath freshening. For example, a film was prep'd. contg. **maltodextrin** 36.00%, **sodium alginate** 22.15%, microcryst. cellulose 20.00%, glycerin 7.30%, flavor 11.00%, lecithin 2.00%, sweetener 1.50%, and color 0.05%.

L6 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:117597 CAPLUS

DOCUMENT NUMBER: 138:158577

TITLE: Improved **edible** film

**formulations** containing **maltodextrin**

INVENTOR(S): Chapdelaine, Albert H.; Zyck, Daniel; Dzija, Michael J.

PATENT ASSIGNEE(S): Wm. Wrigley Jr. Company, USA

SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011259	A1	20030213	WO 2002-US21591	20020709
WO 2003011259	C1	20030320		
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2003035841	A1	20030220	US 2001-682164	20010730
US 2003054039	A1	20030320	US 2002-44105	20020109
PRIORITY APPLN. INFO.:			US 2001-682164	A 20010730
			US 2002-44105	A 20020109

AB Improved **edible** films for **mucoadhesion** are provided. The films include at least three types **film forming** agents other than pullulan, such as maltodextrins, hydrocolloids and fillers. Preferably, the **maltodextrin** has a dextrose equiv. of less than 20. Medicaments and other additive agents can also be incorporated into the **edible** films. In this regard, the **edible** films can be utilized to deliver or release the medicaments into an oral cavity, thereby providing effective oral treatment with respect to, for example, oral cleansing and breath freshening. For

example, a film for oral hygiene was prep'd. contg. **maltodextrin** 25.95%, **sodium alginate** 22.50%, microcryst. cellulose 25.75%, glycerin 12.25%, menthol 1.00%, chlorhexidine 1.85%, flavor 9.40%, sweetener 1.25%, and color 0.05%.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 11 USPATFULL

ACCESSION NUMBER: 2003:113776 USPATFULL

TITLE: In vivo delivery methods and compositions

INVENTOR(S): Kensey, Kenneth, Malvern, PA, UNITED STATES

NUMBER	KIND	DATE
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PATENT INFORMATION:	US 2003078517	A1	20030424
APPLICATION INFO.:	US 2001-839785	A1	20010420 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-819924, filed on 28 Mar 2001, PENDING Continuation-in-part of Ser. No. US 2000-727950, filed on 1 Dec 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-628401, filed on 1 Aug 2000, PENDING Continuation-in-part of Ser. No. US 2000-501856, filed on 10 Feb 2000, GRANTED, Pat. No. US 6322525 Continuation-in-part of Ser. No. US 1999-439795, filed on 12 Nov 1999, GRANTED, Pat. No. US 6322524 Continuation-in-part of Ser. No. US 1997-919906, filed on 28 Aug 1997, GRANTED, Pat. No. US 6019735		

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: CAESAR, RIVISE, BERNSTEIN,, COHEN & POKOTILOW, LTD., 12TH FLOOR, SEVEN PENN CENTER, 1635 MARKET STREET, PHILADELPHIA, PA, 19103-2212

NUMBER OF CLAIMS: 36

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 19 Drawing Page(s)

LINE COUNT: 2736

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Various methods are provided for determining and utilizing the viscosity of the circulating blood of a living being over a range of shear rates for diagnostics and treatment, such as detecting/reducing blood viscosity, work of the heart, contractility of the heart, for detecting/reducing the surface tension of the blood, for detecting plasma viscosity, for explaining/countering endothelial cell dysfunction, for providing high and low blood vessel wall shear stress data, red blood cell deformability data, lubricity of blood, and for treating different ailments such as peripheral arterial disease in combination with administering to a living being at least one pharmaceutically acceptable agent. Agents pharmaceutically effective to regulate at least one of the aforementioned blood parameters are used to adjust distribution of a substance through the bloodstream.

L6 ANSWER 4 OF 11 USPATFULL

ACCESSION NUMBER: 2003:78119 USPATFULL

TITLE: Edible film formulations

containing **maltodextrin**

INVENTOR(S): Zyck, Daniel J., North Riverside, IL, UNITED STATES

Dzija, Michael R., LaGrange Park, IL, UNITED STATES

Chapdelaine, Albert H., Naperville, IL, UNITED STATES

NUMBER	KIND	DATE
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PATENT INFORMATION:	US 2003054039	A1	20030320
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APPLICATION INFO.: US 2002-44105 A1 20020109 (10)  
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2001-682164, filed  
on 30 Jul 2001, PENDING  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: BELL, BOYD & LLOYD LLC, P. O. BOX 1135, CHICAGO, IL,  
60690-1135  
NUMBER OF CLAIMS: 34  
EXEMPLARY CLAIM: 1  
LINE COUNT: 569

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Improved **edible** films for **mucoadhesion** are provided.  
The films include at least three types **film forming**  
agents other than pullulan, such as maltodextrins, hydrocolloids and  
fillers. Preferably, the **maltodextrin** has a dextrose  
equivalent of less than 20. Medicaments and other additive agents can  
also be incorporated into the **edible** films. In this regard,  
the **edible** films can be utilized to deliver or release the  
medicaments into an oral cavity, thereby providing effective oral  
treatment with respect to, for example, oral cleansing and breath  
freshening.

L6 ANSWER 5 OF 11 USPATFULL  
ACCESSION NUMBER: 2003:50885 USPATFULL  
TITLE: **Edible film formulations**  
containing **maltodextrin**  
INVENTOR(S): Dzija, Michael R., LaGrange Park, IL, UNITED STATES  
Barkalow, David G., Deerfield, IL, UNITED STATES  
Chapdelaine, Albert H., Naperville, IL, UNITED STATES  
Zyck, Daniel J., North Riverside, IL, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003035841	A1	20030220	09/682,164
APPLICATION INFO.:	US 2001-682164	A1	20010730 (9)	
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	BELL, BOYD & LLOYD LLC, P. O. BOX 1135, CHICAGO, IL, 60690-1135			
NUMBER OF CLAIMS:	20			
EXEMPLARY CLAIM:	1			
LINE COUNT:	424			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Improved **edible** films for **mucoadhesion** are provided.  
The films include at least three types **film forming**  
agents other than pullulan, such as maltodextrins, hydrocolloids and  
fillers. Medicaments and other additive agents can also be incorporated  
into the **edible** films. In this regard, the **edible**  
films can be utilized to deliver or release the medicaments into an oral  
cavity, thereby providing effective oral treatment with respect to, for  
example, oral cleansing and breath freshening.

L6 ANSWER 6 OF 11 USPATFULL  
ACCESSION NUMBER: 2003:30963 USPATFULL  
TITLE: Rapid-onset medicament for treatment of sexual  
dysfunction  
INVENTOR(S): Martino, Alice C., Kalamazoo, MI, UNITED STATES  
McCurdy, Vincent E., Portage, MI, UNITED STATES  
Pierman, Steven A., Portage, MI, UNITED STATES  
Reo, Joseph P., Kalamazoo, MI, UNITED STATES  
Tyle, Praveen, Kalamazoo, MI, UNITED STATES  
Wu, Sy-Juen, Portage, MI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003022912	A1	20030130
APPLICATION INFO.:	US 2002-72368	A1	20020207 (10)
	NUMBER	DATE	
PRIORITY INFORMATION:	US 2001-267519P	20010208 (60)	
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Pharmacia Corporation, Corporate Patent Department, 800 N. Lindbergh Boulevard-04B, St. Louis, MO, 63167		
NUMBER OF CLAIMS:	42		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Page(s)		
LINE COUNT:	1575		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	A rapid-onset pharmaceutical composition is provided, useful for treatment of sexual dysfunction, stimulation of sexual activity and enhancement of sexual desire, interest and performance in men and women. The composition is a dosage form comprising (a) a therapeutically or sexual-stimulatorily effective amount of a therapeutic agent having a molecular weight, excluding counterions, not greater than 250, and (b) at least one pharmaceutically acceptable excipient; and is adapted for delivery by a route of administration that entails interaction with the organs of taste yet has acceptable organoleptic properties. Illustrative therapeutic agents useful in dosage forms of the invention are compounds having the formula ##STR1##		
wherein X is O or S; and pharmaceutically acceptable salts thereof.			
L6	ANSWER 7 OF 11 USPATFULL		
ACCESSION NUMBER:	2002:54986 USPATFULL		
TITLE:	In vivo delivery methods and compositions		
INVENTOR(S):	Kensey, Kenneth, Malvern, PA, UNITED STATES		
	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002032149	A1	20020314
APPLICATION INFO.:	US 2001-841389	A1	20010424 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-819924, filed on 28 Mar 2001, PENDING Continuation-in-part of Ser. No. US 2000-727950, filed on 1 Dec 2000, PENDING Continuation-in-part of Ser. No. US 2000-628401, filed on 1 Aug 2000, PENDING Continuation-in-part of Ser. No. US 2000-501856, filed on 10 Feb 2000, GRANTED, Pat. No. US 6322525 Continuation-in-part of Ser. No. US 1999-439795, filed on 12 Nov 1999, GRANTED, Pat. No. US 6322524 Continuation-in-part of Ser. No. US 1997-919906, filed on 28 Aug 1997, GRANTED, Pat. No. US 6019735		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	CAESAR, RIVISE, BERNSTEIN,, COHEN & POKOTILOW, LTD., 12TH FLOOR, SEVEN PENN CENTER, 1635 MARKET STREET, PHILADELPHIA, PA, 19103-2212		
NUMBER OF CLAIMS:	36		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	19 Drawing Page(s)		
LINE COUNT:	2747		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

AB Various methods are provided for determining and utilizing the viscosity of the circulating blood of a living being over a range of shear rates for diagnostics and treatment, such as detecting/reducing blood viscosity, work of the heart, contractility of the heart, for detecting/reducing the surface tension of the blood, for detecting plasma viscosity, for explaining/countering endothelial cell dysfunction, for providing high and low blood vessel wall shear stress data, red blood cell deformability data, lubricity of blood, and for treating different ailments such as peripheral arterial disease in combination with administering to a living being at least one pharmaceutically acceptable agent. Agents pharmaceutically effective to regulate at least one of the aforementioned blood parameters are used to adjust distribution of a substance through the bloodstream.

L6 ANSWER 8 OF 11 USPATFULL

ACCESSION NUMBER:

91:36242 USPATFULL

TITLE:

Taste masking compositions comprising spray dried microcapsules containing sucralfate and methods for preparing same

INVENTOR(S):

Tai, Anna W., Bridgewater, NJ, United States

PATENT ASSIGNEE(S):

Warner-Lambert Company, Morris Plains, NJ, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION:

US 5013557 . 19910507

APPLICATION INFO.:

US 1989-416630 19891003 (7)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Page, Thurman K.

LEGAL REPRESENTATIVE:

Gaglia, Jr., Charles A.

NUMBER OF CLAIMS:

47

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT: 1557

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention pertains to spray dried spheroidal microcapsules under about 150 microns in diameter which comprise in percentages by weight of the microcapsule composition (a) sucralfate present in an amount from about 1% to about 70%, and (b) a polymer soluble in the gastric fluids present in an amount from about 30% to about 99%. In another embodiment, the invention is directed at a taste masking composition which comprises a therapeutically effective amount of a spray dried spheroidal microcapsule core under about 150 microns in diameter and a matrix over the core wherein the taste masking composition comprises (A) a microcapsule core comprising in percentages by weight of the core composition (a) sucralfate present in an amount from about 1% to about 70%, and (b) a polymer soluble in the gastric fluids present in an amount from about 30% to about 99%; and (B) a matrix over the core comprising in percentages by weight of the matrix composition (a) a bulking agent present in an amount up to about 99.9%, and (b) a lubricating agent present in an amount from about 0.1% to about 7%.

L6 ANSWER 9 OF 11 USPATFULL

ACCESSION NUMBER:

91:26470 USPATFULL

TITLE:

Multiple encapsulated flavor delivery system and method of preparation

INVENTOR(S):

Cherukuri, Subraman R., Towaco, NJ, United States

Chau, Tommy L., Bridgewater, NJ, United States

Raman, Krishna P., Randolph, NJ, United States

Orama, Angel M., Stanhope, NJ, United States

PATENT ASSIGNEE(S): Warner-Lambert Company, Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5004595		19910402
APPLICATION INFO.:	US 1990-503331		19900330 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1989-452660, filed on 18 Dec 1989 which is a continuation-in-part of Ser. No. US 1989-329742, filed on 28 Mar 1989, now patented, Pat. No. US 4933190 which is a continuation-in-part of Ser. No. US 1986-945743, filed on 23 Dec 1986		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hunter, Jeanette		
LEGAL REPRESENTATIVE:	Scola, Jr., Daniel A., Bullitt, Richard S.		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	890		
AB	A free-flowing particulate delivery system for providing enhanced flavor and sweetness to comestible compositions comprising a powdered flavor composition encapsulated in a matrix comprising an outer hydrophilic coating containing up to the solubility limit of the coating of an intense sweetener. The delivery system is particularly useful in chewing gums, confectioneries and pharmaceutical preparations as well as other food products.		

L6 ANSWER 10 OF 11 EUROPATFULL COPYRIGHT 2003 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 453397 EUROPATFULL EW 199143 FS OS STA B

TITLE: Multiple encapsulated flavor delivery system and method of preparation.  
Mehrfaehiges eingekapseltes Aromastoff-Freigabesystem und Verfahren zur Herstellung.  
Systeme de liberation d'aromes a encapsulation multiple et procede de fabrication.

INVENTOR(S): Cherukuri, Subraman Rao, 10 Jean Drive, Towaco, New Jersey 07082, US;  
Chau, Tommy Linkwong, 3 Dartmouth Avenue, 3A, Bridgewater, New Jersey 08807, US;  
Raman, Krishna P., 5 Marre Drive, Randolph, New Jersey 07869, US;  
Orama, Angel Manuel, 19 Elizabeth Avenue, Stanhope, New Jersey 07874, US

PATENT ASSIGNEE(S): WARNER-LAMBERT COMPANY, 201 Tabor Road, Morris Plains New Jersey 07950, US

PATENT ASSIGNEE NO: 228290

AGENT: Silbiger, Jakob, Dr., c/o CAPSUGEL AG Fabrikmatteweg 2-4, CH-4144 Arlesheim, CH

AGENT NUMBER: 26891

OTHER SOURCE: ESP1991079 EP 0453397 A1 911023

SOURCE: Wila-EPZ-1991-H43-T3

DOCUMENT TYPE: Patent

LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES: R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R NL; R SE

PATENT INFO.PUB.TYPE: EPA1 EUROPAEISCHE PATENTANMELDUNG

PATENT INFORMATION:

PATENT NO	KIND DATE
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 'OFFENLEGUNGS' DATE: EP 453397 A1 19911023  
 APPLICATION INFO.: EP 1991-810211 19910325  
 PRIORITY APPLN. INFO.: US 1990-503331 19900330

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 453397 EUROPATFULL EW 199503 FS PS STA B  
 TITLE: Multiple encapsulated flavor delivery system and method of preparation.  
 Mehrfaches eingekapseltes Aromastoff-Freigabesystem und Verfahren zur Herstellung.  
 Systeme de liberation d'aromes a encapsulation multiple et procede de fabrication.  
 INVENTOR(S): Cherukuri, Subraman Rao, 10 Jean Drive, Towaco, New Jersey 07082, US;  
 Chau, Tommy Linkwong, 3 Dartmouth Avenue, 3A, Bridgewater, New Jersey 08807, US;  
 Raman, Krishna P., 5 Marre Drive, Randolph, New Jersey 07869, US;  
 Orama, Angel Manuel, 19 Elizabeth Avenue, Stanhope, New Jersey 07874, US  
 PATENT ASSIGNEE(S): WARNER-LAMBERT COMPANY, 201 Tabor Road, Morris Plains New Jersey 07950, US  
 PATENT ASSIGNEE NO: 228290  
 AGENT: Tesch, Rudolf et al, c/o Goedecke AG, Patentwesen, D-79090 Freiburg, DE  
 AGENT NUMBER: 69431  
 OTHER SOURCE: EPB1995005 EP 0453397 B1 950118  
 SOURCE: Wila-EPS-1995-H03-T3  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch  
 DESIGNATED STATES: R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R NL; R SE  
 PATENT INFO. PUB. TYPE: EPB1 EUROPÄISCHE PATENTSCHRIFT  
 PATENT INFORMATION:

PATENT NO	KIND DATE
EP 453397	B1 19950118 19911023

'OFFENLEGUNGS' DATE: EP 453397 B1 19950118  
 APPLICATION INFO.: EP 1991-810211 19910325  
 PRIORITY APPLN. INFO.: US 1990-503331 19900330  
 REFERENCE PAT. INFO.: EP 272220 A EP 273009 A  
 US 3985913 A US 4001438 A

ABEN A free-flowing particulate delivery system for providing enhanced flavor and sweetness to comestible compositions comprising a powdered flavor composition encapsulated in a matrix comprising an outer hydrophilic coating containing up to the solubility limit of the coating of an intense sweetener. The delivery system is particularly useful in chewing **gums**, confectioneries and pharmaceutical preparations as well as other food products.

L6 ANSWER 11 OF 11 EUROPATFULL COPYRIGHT 2003 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 426428 EUROPATFULL EW 199119 FS OS STA B  
 TITLE: Encapsulated sweetener-flavour delivery system, and its production.  
 Eingekapseltes Geschmacks-Suessstofffreigabesystem und

seine Zubereitung.  
 Systeme de liberation d'edulcorant-arome capsule et sa  
 fabrication.  
**INVENTOR(S):**  
 Cherukuri, Subraman Rao, 10 Jean Drive, Towaco, New Jersey 07082, US;  
 Chau, Tommy Limkwong, 3 Dartmouth Avenue 3A, Bridgewater, NJ 08807, US;  
 Raman, Krishna P., 5 Marre Drive, Randolph, New Jersey 07869, US;  
 Orama, Angel Manual, 19 Elizabeth Avenue, Stanhope, New Jersey 07874, US  
**PATENT ASSIGNEE(S):**  
 WARNER-LAMBERT COMPANY, 201 Tabor Road, Morris Plains New Jersey 07950, US  
**PATENT ASSIGNEE NO:**  
**AGENT:**  
 Jones, Michael Raymond et al, HASELTINE LAKE & CO.  
 Hazlitt House 28 Southampton Buildings Chancery Lane, London WC2A 1AT, GB  
**AGENT NUMBER:** 32461  
**OTHER SOURCE:** ESP1991035 EP 0426428 A1 910508  
**SOURCE:** Wila-EPZ-1991-H19-T3  
**DOCUMENT TYPE:** Patent  
**LANGUAGE:** Anmeldung in Englisch; Veroeffentlichung in Englisch  
**DESIGNATED STATES:** R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R NL; R SE  
**PATENT INFO.PUB.TYPE:** EPA1 EUROPÄISCHE PATENTANMELDUNG  
**PATENT INFORMATION:**

PATENT NO	KIND DATE
EP 426428	A1 19910508
	19910508
EP 1990-311869	19901030
PRIORITY APPLN. INFO.: US 1989-429576	19891031

**GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE**

**ACCESSION NUMBER:** 426428      **EUROPATFULL EW 199332 FS PS STA B**  
**TITLE:** Encapsulated sweetener-flavour delivery system, and its production.  
 Eingekapseltes Geschmacks-Suess-Stofffreigabesystem und seine Zubereitung.  
 Systeme de liberation d'edulcorant-arome capsule et sa fabrication.  
**INVENTOR(S):**  
 Cherukuri, Subraman Rao, 10 Jean Drive, Towaco, New Jersey 07082, US;  
 Chau, Tommy Limkwong, 3 Dartmouth Avenue 3A, Bridgewater, NJ 08807, US;  
 Raman, Krishna P., 5 Marre Drive, Randolph, New Jersey 07869, US;  
 Orama, Angel Manual, 19 Elizabeth Avenue, Stanhope, New Jersey 07874, US  
**PATENT ASSIGNEE(S):**  
 WARNER-LAMBERT COMPANY, 201 Tabor Road, Morris Plains New Jersey 07950, US  
**PATENT ASSIGNEE NO:**  
**AGENT:**  
 Jones, Michael Raymond et al, HASELTINE LAKE & CO.  
 Hazlitt House 28 Southampton Buildings Chancery Lane, London WC2A 1AT, GB  
**AGENT NUMBER:** 32461  
**OTHER SOURCE:** EPB1993040 EP 0426428 B1 930811  
**SOURCE:** Wila-EPS-1993-H32-T3  
**DOCUMENT TYPE:** Patent  
**LANGUAGE:** Anmeldung in Englisch; Veroeffentlichung in Englisch  
**DESIGNATED STATES:** R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R

LI; R NL; R SE  
PATENT INFO. PUB. TYPE: EPB1 EUROPÄISCHE PATENTSCHRIFT  
PATENT INFORMATION:

	PATENT NO	KIND DATE
'OFFENLEGUNGS' DATE:	EP 426428	B1 19930811
APPLICATION INFO.:	EP 1990-311869	19910508
PRIORITY APPLN. INFO.:	US 1989-429576	19901030
REFERENCE PAT. INFO.:	EP 202819 A	19891031
	US 3949096 A	EP 314626 A
	US 4386106 A	US 4276312 A

ABEN A flavour delivery system is disclosed, offering a combination of improved properties including improved flavour intensity with reduced bitterness, together with improved flavour extension and release characteristics when incorporated into chewing **gums** and other products, comprises an emulsion of a liquid flavour, preferably a flavour oil, a sweetener, and a **film-forming** polymer coating component; wherein the sweetener and the **film-forming** polymer coating are combined and define a first aqueous solution mixture, the first aqueous solution mixture and the flavour component are combined to define a second aqueous solution mixture, and the emulsion is prepared from the second aqueous solution mixture. The present delivery system finds use in comestibles such as chewing **gum** compositions and other food products, pharmaceuticals, and scratch-and-sniff and aroma packaging products. The delivery system can be prepared in particulate form by spray drying.

AB Various methods are provided for determining and utilizing the viscosity of the circulating blood of a living being over a range of shear rates for diagnostics and treatment, such as detecting/reducing blood viscosity, work of the heart, contractility of the heart, for detecting/reducing the surface tension of the blood, for detecting plasma viscosity, for explaining/countering endothelial cell dysfunction, for providing high and low blood vessel wall shear stress data, red blood cell deformability data, lubricity of blood, and for treating different ailments such as peripheral arterial disease in combination with administering to a living being at least one pharmaceutically acceptable agent. Agents pharmaceutically effective to regulate at least one of the aforementioned blood parameters are used to adjust distribution of a substance through the bloodstream.

L6 ANSWER 8 OF 11 USPATFULL

ACCESSION NUMBER: 91:36242 USPATFULL  
TITLE: Taste masking compositions comprising spray dried microcapsules containing sucralfate and methods for preparing same  
INVENTOR(S): Tai, Anna W., Bridgewater, NJ, United States  
PATENT ASSIGNEE(S): Warner-Lambert Company, Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5013557		19910507
APPLICATION INFO.:	US 1989-416630		19891003 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Page, Thurman K.		
LEGAL REPRESENTATIVE:	Gaglia, Jr., Charles A.		
NUMBER OF CLAIMS:	47		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	1557		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention pertains to spray dried spheroidal microcapsules under about 150 microns in diameter which comprise in percentages by weight of the microcapsule composition (a) sucralfate present in an amount from about 1% to about 70%, and (b) a polymer soluble in the gastric fluids present in an amount from about 30% to about 99%. In another embodiment, the invention is directed at a taste masking composition which comprises a therapeutically effective amount of a spray dried spheroidal microcapsule core under about 150 microns in diameter and a matrix over the core wherein the taste masking composition comprises (A) a microcapsule core comprising in percentages by weight of the core composition (a) sucralfate present in an amount from about 1% to about 70%, and (b) a polymer soluble in the gastric fluids present in an amount from about 30% to about 99%; and (B) a matrix over the core comprising in percentages by weight of the matrix composition (a) a bulking agent present in an amount up to about 99.9%, and (b) a lubricating agent present in an amount from about 0.1% to about 7%.

L6 ANSWER 9 OF 11 USPATFULL

ACCESSION NUMBER: 91:26470 USPATFULL  
TITLE: Multiple encapsulated flavor delivery system and method of preparation  
INVENTOR(S): Cherukuri, Subraman R., Towaco, NJ, United States  
Chau, Tommy L., Bridgewater, NJ, United States  
Raman, Krishna P., Randolph, NJ, United States  
Orama, Angel M., Stanhope, NJ, United States

PATENT ASSIGNEE(S): Warner-Lambert Company, Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5004595		19910402
APPLICATION INFO.:	US 1990-503331		19900330 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1989-452660, filed on 18 Dec 1989 which is a continuation-in-part of Ser. No. US 1989-329742, filed on 28 Mar 1989, now patented, Pat. No. US 4933190 which is a continuation-in-part of Ser. No. US 1986-945743, filed on 23 Dec 1986		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hunter, Jeanette		
LEGAL REPRESENTATIVE:	Scola, Jr., Daniel A., Bullitt, Richard S.		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	890		
AB	A free-flowing particulate delivery system for providing enhanced flavor and sweetness to comestible compositions comprising a powdered flavor composition encapsulated in a matrix comprising an outer hydrophilic coating containing up to the solubility limit of the coating of an intense sweetener. The delivery system is particularly useful in chewing gums, confectioneries and pharmaceutical preparations as well as other food products.		

L6 ANSWER 10 OF 11 EUROPATFULL COPYRIGHT 2003 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 453397 EUROPATFULL EW 199143 FS OS STA B

TITLE: Multiple encapsulated flavor delivery system and method of preparation.  
Mehrfares eingekapseltes Aromastoff-Freigabesystem und Verfahren zur Herstellung.  
Systeme de libération d'aromes a encapsulation multiple et procede de fabrication.

INVENTOR(S): Cherukuri, Subraman Rao, 10 Jean Drive, Towaco, New Jersey 07082, US;  
Chau, Tommy Linkwong, 3 Dartmouth Avenue, 3A, Bridgewater, New Jersey 08807, US;  
Raman, Krishna P., 5 Marre Drive, Randolph, New Jersey 07869, US;  
Orama, Angel Manuel, 19 Elizabeth Avenue, Stanhope, New Jersey 07874, US

PATENT ASSIGNEE(S): WARNER-LAMBERT COMPANY, 201 Tabor Road, Morris Plains New Jersey 07950, US

PATENT ASSIGNEE NO: 228290

AGENT: Silbiger, Jakob, Dr.; c/o CAPSUGEL AG Fabrikmatteweg 2-4, CH-4144 Arlesheim, CH

AGENT NUMBER: 26891

OTHER SOURCE: ESP1991079 EP 0453397 A1 911023

SOURCE: Wila-EPZ-1991-H43-T3

DOCUMENT TYPE: Patent

LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES: R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R NL; R SE

PATENT INFO. PUB. TYPE: EPA1 EUROPAEISCHE PATENTANMELDUNG

PATENT INFORMATION:

PATENT NO	KIND DATE
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 'OFFENLEGUNGS' DATE: EP 453397 A1 19911023  
 APPLICATION INFO.: EP 1991-810211 19910325  
 PRIORITY APPLN. INFO.: US 1990-503331 19900330

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 453397 EUROPATFULL EW 199503 FS PS STA B  
 TITLE: Multiple encapsulated flavor delivery system and method of preparation.  
 Mehrfaches eingekapseltes Aromastoff-Freigabesystem und Verfahren zur Herstellung.  
 Systeme de liberation d'aromes a encapsulation multiple et procede de fabrication.  
 INVENTOR(S): Cherukuri, Subraman Rao, 10 Jean Drive, Towaco, New Jersey 07082, US;  
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 Orama, Angel Manuel, 19 Elizabeth Avenue, Stanhope, New Jersey 07874, US  
 PATENT ASSIGNEE(S): WARNER-LAMBERT COMPANY, 201 Tabor Road, Morris Plains New Jersey 07950, US  
 PATENT ASSIGNEE NO: 228290  
 AGENT: Tesch, Rudolf et al, c/o Goedecke AG, Patentwesen, D-79090 Freiburg, DE  
 AGENT NUMBER: 69431  
 OTHER SOURCE: EPB1995005 EP 0453397 B1 950118  
 SOURCE: Wila-EPS-1995-H03-T3  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch  
 DESIGNATED STATES: R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R NL; R SE  
 PATENT INFO.PUB.TYPE: EPB1 EUROPÄISCHE PATENTSCHRIFT  
 PATENT INFORMATION:

PATENT NO	KIND DATE
EP 453397	B1 19950118
	19911023
EP 1991-810211	19910325
US 1990-503331	19900330
EP 272220 A	EP 273009 A
US 3985913 A	US 4001438 A

ABEN A free-flowing particulate delivery system for providing enhanced flavor and sweetness to comestible compositions comprising a powdered flavor composition encapsulated in a matrix comprising an outer hydrophilic coating containing up to the solubility limit of the coating of an intense sweetener. The delivery system is particularly useful in chewing **gums**, confectioneries and pharmaceutical preparations as well as other food products.

L6 ANSWER 11 OF 11 EUROPATFULL COPYRIGHT 2003 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 426428 EUROPATFULL EW 199119 FS OS STA B  
 TITLE: Encapsulated sweetener-flavour delivery system, and its production.  
 Eingekapseltes Geschmacks-Suessstofffreigabesystem und

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 Systeme de liberation d'edulcorant-arome capsule et sa  
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**INVENTOR(S):**  
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 Raman, Krishna P., 5 Marre Drive, Randolph, New Jersey  
 07869, US;  
 Orama, Angel Manual, 19 Elizabeth Avenue, Stanhope, New  
 Jersey 07874, US  
**PATENT ASSIGNEE(S):**  
 WARNER-LAMBERT COMPANY, 201 Tabor Road, Morris Plains  
 New Jersey 07950, US  
**PATENT ASSIGNEE NO:**  
 228290  
**AGENT:**  
 Jones, Michael Raymond et al, HASELTINE LAKE & CO.  
 Hazlitt House 28 Southampton Buildings Chancery Lane,  
 London WC2A 1AT, GB  
**AGENT NUMBER:** 32461  
**OTHER SOURCE:** ESP1991035 EP 0426428 A1 910508  
**SOURCE:** Wila-EPZ-1991-H19-T3  
**DOCUMENT TYPE:** Patent  
**LANGUAGE:** Anmeldung in Englisch; Veroeffentlichung in Englisch  
**DESIGNATED STATES:** R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R  
 LI; R NL; R SE  
**PATENT INFO.PUB.TYPE:** EPA1 EUROPÄISCHE PATENTANMELDUNG  
**PATENT INFORMATION:**

PATENT NO	KIND DATE
EP 426428	A1 19910508 19910508
EP 1990-311869	19901030
US 1989-429576	19891031

  
**GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE**
  
**ACCESSION NUMBER:** 426428      **EUROPATFULL EW 199332 FS PS STA B**  
**TITLE:** Encapsulated sweetener-flavour delivery system, and its  
 production.  
 Eingekapseltes Geschmacks-Suess-Stofffreigesystem und  
 seine Zubereitung.  
 Systeme de liberation d'edulcorant-arome capsule et sa  
 fabrication.  
**INVENTOR(S):**  
 Cherukuri, Subraman Rao, 10 Jean Drive, Towaco, New  
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 Chau, Tommy Limkwong, 3 Dartmouth Avenue 3A,  
 Bridgewater, NJ 08807, US;  
 Raman, Krishna P., 5 Marre Drive, Randolph, New Jersey  
 07869, US;  
 Orama, Angel Manual, 19 Elizabeth Avenue, Stanhope, New  
 Jersey 07874, US  
**PATENT ASSIGNEE(S):**  
 WARNER-LAMBERT COMPANY, 201 Tabor Road, Morris Plains  
 New Jersey 07950, US  
**PATENT ASSIGNEE NO:**  
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**AGENT:**  
 Jones, Michael Raymond et al, HASELTINE LAKE & CO.  
 Hazlitt House 28 Southampton Buildings Chancery Lane,  
 London WC2A 1AT, GB  
**AGENT NUMBER:** 32461  
**OTHER SOURCE:** EPB1993040 EP 0426428 B1 930811  
**SOURCE:** Wila-EPS-1993-H32-T3  
**DOCUMENT TYPE:** Patent  
**LANGUAGE:** Anmeldung in Englisch; Veroeffentlichung in Englisch  
**DESIGNATED STATES:** R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R

LI; R NL; R SE  
PATENT INFO. PUB. TYPE: EPB1 EUROPÄISCHE PATENTSCHRIFT  
PATENT INFORMATION:

PATENT NO	KIND DATE
EP 426428	B1 19930811 19910508
'OFFENLEGUNGS' DATE:	
APPLICATION INFO.:	EP 1990-311869 19901030
PRIORITY APPLN. INFO.:	US 1989-429576 19891031
REFERENCE PAT. INFO.:	EP 202819 A EP 314626 A US 3949096 A US 4276312 A US 4386106 A

ABEN A flavour delivery system is disclosed, offering a combination of improved properties including improved flavour intensity with reduced bitterness, together with improved flavour extension and release characteristics when incorporated into chewing **gums** and other products, comprises an emulsion of a liquid flavour, preferably a flavour oil, a sweetener, and a **film-forming** polymer coating component; wherein the sweetener and the **film-forming** polymer coating are combined and define a first aqueous solution mixture, the first aqueous solution mixture and the flavour component are combined to define a second aqueous solution mixture, and the emulsion is prepared from the second aqueous solution mixture. The present delivery system finds use in comestibles such as chewing **gum** compositions and other food products, pharmaceuticals, and scratch-and-sniff and aroma packaging products. The delivery system can be prepared in particulate form by spray drying.

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